



IBM WebSphere Transformation Extender for z/OS V8.4.1 delivers productivity enhancements

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At a glance

Highlights of IBM® WebSphere® Transformation Extender for z/OS® V8.4.1:

- Design Studio: Eclipse based COBOL copybook importer; visual mapping of XSLT; new XPATH, XSLT, and XVALIDATE functions; Java™ API for creating and modifying maps and type trees; automapping capability; large XML namespaces support

For ordering, contact Your IBM representative or an IBM Business Partner. For more information contact the Americas Call Centers at 800-IBM-CALL (426-2255).

Reference: LE001

Overview

IBM WebSphere Transformation Extender for z/OS delivers the data transformation and validation required in your IT infrastructure.

Summary of new technical features in IBM WebSphere Transformation Extender for z/OS V8.4.1 base editions

General

- Support for mixed content and xsi: type in native XML
- Support for excess trailing spaces
- Improved diagnostics when using Native XML in maps
- Enhances serviceability

Design Studio

- Includes Eclipse based COBOL copybook importer
- Includes a new Graphical Data Mapper for visual mapping of XSLT
- Includes JavaScript™ Object Notation importer
- Delivers XPATH, XSLT, and XVALIDATE functions
- Has new Java API that enables users to create and modify maps and type trees from a Java program
- Adds automapping capability
- Is able to handle large XML namespaces

- Is able to select a root in order to build just that one construct as the root of the tree when using Native Schema or the Xerces importer

Connectivity

- Adds new Java Architecture for XML Binding (JAXB) adapter
- Adds HL7 MLLP adapter
- Supports currency, including support for:
 - IBM DB2® 10.1
 - IBM WebSphere Message Broker (IBM Integration Bus 9.0)

Removes the following obsolete support:

- IBM WebSphere Enterprise Service Bus (integration replaced by IBM Business Process Manager Advanced for z/OS)

Key prerequisites

Refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

June 14, 2013

Description

IBM WebSphere Transformation Extender (WebSphere TX) for z/OS V8.4.1 delivers the data transformation and validation required in your IT infrastructure.

Base editions of Websphere TX provide the core engine, associated infrastructure, and components necessary for production data transformation environments. All implementations require one or more base editions, depending on the enterprise architecture and location where WebSphere TX is implemented. Technology adapters for integrating with other technologies in the enterprise, such as IBM WebSphere MQ, are included in the base products.

Note: Not all adapters are supported on all platforms. For example, a subset of adapters is supported on IBM System z® and includes WebSphere MQ, file, and FTP. The adapters not included are those with royalty bearing encryption and security protocols, and those delivered in optional packs.

The following editions are available on the IBM System z platform:

- **IBM WebSphere Transformation Extender for Application Programming** is used to deploy the transformation engine in custom applications and application servers, and uses the APIs provided to execute a transformation map.
- **IBM WebSphere Transformation Extender with Command Server** allows the transformation engine to be called directly from a command line, shell script, or timer. System z users of MVS™ Batch, CICS® , and IMS™ environments use this edition. For System z users, this edition includes the components in the Application Programming edition.
- **WebSphere Transformation Extender with Launcher** includes the Command Server capability and provides a standalone map launcher service, which activates transformations based on event triggers. Examples of triggers include messages arriving on a message queue or files present in a directory. WebSphere Transformation Extender with Launcher also provides conditional event processing such as browsing for certain messages in the queue, availability of files, and scheduled events.

- **WebSphere Transformation Extender for Integration Servers** offers the transformation engine, packaged, ready to install and deploy with IBM WebSphere Process Server, IBM WebSphere Enterprise Service Bus, IBM WebSphere Message Broker, and IBM Sterling B2B Integrator.
- **IBM WebSphere Transformation Extender with Launcher Hypervisor Editions** allow WebSphere Transformation Extender to be deployed directly by the IBM Workload Deployer appliance. This integration helps simplify the use of WebSphere Transformation Extender within virtualized and private cloud architectures. This integration allows you to make use of your existing WebSphere Transformation Extender maps in a private cloud environment, and can enhance the value that WebSphere Transformation Extender provides as a universal transformation solution.

Development tooling runs on Windows™ only and includes Design Studio tools that run standalone or plugged into an existing Eclipse standard workbench, and a Software Developer Kit for interfacing to WebSphere TX in a custom programming environment. WebSphere Transformation Extender Design Studio is capable of importing nearly any industry format when available to industry communities such as XML schema. All WebSphere TX implementations require at least one order of WebSphere Transformation Extender Design Studio to develop, test, and deploy transformations.

WebSphere Transformation Extender industry packs provide capabilities that are ready to use to integrate a range of industry standard data formats with your enterprise infrastructure. Industry packs can enable developers to accelerate the delivery of transformation solutions by providing predefined type tree templates, conversion maps, and in selected packs, provide validation maps and tools to help remove risk from projects that require conformance to mandatory and advisory guidelines required by the regulatory body or industry service provider.

WebSphere Transformation Extender industry packs, used in conjunction with WebSphere Transformation Extender, a universal data transformation engine, provide organizations with an infrastructure that can help:

- Control administrative costs
- Streamline business processes
- Facilitate accuracy and timeliness of information
- Reuse existing business systems
- Adapt to new technologies as they emerge
- Integrate multiple systems and standards
- Automate cross-organizational exchanges

WebSphere Transformation Extender industry packs support the following standards:

- **National Automated Clearing House Association (NACHA)**
 - WebSphere Transformation Extender Pack for NACHA delivers templates for the Automated Clearing House (ACH) compliant message exchange used throughout North America for electronic payments.
 - Like many financial formats, ACH is in an envelope structure consisting of a file header/trailer, batch header/trailer, and detailed transaction records. This pack delivers extensive validation using the guidance provided by NACHA for years 2007 through 2013. Maps are included for conversion of Cash Concentration and Dispersion (CCD) and Corporate Trading Exchange (CTX) ACH formats.
- **Single Euro Payments Area (SEPA)**
 - WebSphere Transformation Extender Pack for SEPA is compliant with European Union European electronic payments infrastructure. It includes templates for SEPA credit transfers and direct debits, mapping between SEPA and SWIFT message type103, validation for European Payment Council's SEPA implementation guidelines, and support for the Credit Transfer and Direct Debit Implementation Guideline.

- **Society for Worldwide Interbank Financial (SWIFT)**
 - WebSphere Transformation Extender Pack for SWIFT provides support for SRG 2012 as updates for existing Corporate Actions, Payments, and Funds.
 - In addition to templates and maps, WebSphere Transformation Extender Pack for SWIFT includes validation to ensure messages conform to SWIFT message standards, delivery monitoring, and prioritization of message storage and retrieval. It uses the Logical Message Format (LMF), an XML representation of the SWIFT message set that eases integration with internal systems, and helps to shield users from SWIFT standards changes. It features an XML and Java-based error reporting mechanism, and provides for archiving all messages processed by the system. The Java validation mechanism provides enhanced error reporting capabilities by pointing you directly to the source of the error.
- **Financial Information eXchange Protocol (FIX)**
 - **WebSphere Transformation Extender Pack for FIX** delivers prebuilt data transformation content for the FIX protocol. FIX is a set of message specifications for automated trading of financial instruments and is used as a standard format in processing and collaboration scenarios by banks, brokers, and dealers, including the foreign exchange markets. This pack supports versions 4.0, 4.1, 4.2, 4.3, 4.4, 5.0, and 5.0 Service Pack 2 of the FIX protocol standards.
- **Association for Cooperative Operations Research and Development (ACORD)**
 - WebSphere Transformation Extender Pack for ACORD provides support for ACORD XML V1 standards for Property and Casualty and Surety and ACORD XML V2 Life Insurance. Type tree templates are included for nonvendor AL3 and a sample conversion map for AL3 to ACORD V1. ACORD XML Schema are available to ACORD members only.
- **WebSphere Transformation Extender Healthcare Packs**
 - WebSphere Transformation Extender Healthcare Packs deliver a bundle of packs to address healthcare industry connectivity including compliance with HIPAA, HL7, and NCPDP standards.
 - WebSphere Transformation Extender Pack for HIPAA EDI includes ready-to-execute template definitions for the complete ASC X12N standard for HIPAA including HIPAA 4010 addendum, as well as CMS (formerly HCFA) formats for legacy NSF, UB-92 Claims and Coordination of Benefits, 4010, and 5010 lat file formats for Professional and Institutional Claims and Coordination of Benefits. The pack includes compliance checking and handling of claims attachments. This pack remains unchanged in this release.
 - HL7 is an ANSI-accredited standards organization operating in the healthcare arena. HL7 produces standards for the exchange, management, and integration of data intended to promote interoperability between healthcare information systems. WebSphere Transformation Extender Pack for HL7 includes HL7 V2.1, V2.2, V2.3, V2.6, V2.5, and V2.7 type trees. HL7 V3 XML formats can be easily imported into the Design Studio Type Designer using the XML Importer built into the tool.
 - NCPDP is a HIPAA-designated standards maintenance organization for finalized HIPAA transactions. NCPDP standards are used in the retail pharmacy sector. WebSphere Transformation Extender Pack for NCPDP includes template definitions for all of the finalized HIPAA NCPDP Telecommunications V5.1 transaction sets and Batch V1.1 format. The pack also supports NCPDP V3.2 transaction sets and Batch V1.0 format. Sample maps are included to create reports from requests and replies.
 - **WebSphere Transformation Extender EDI Packs**
 - WebSphere Transformation Extender EDI Packs deliver a bundle of packs to address ASC X12, EDIFACT, and TRADACOMS standards formatting and compliance.
 - ASC X12 represents multiple business domains including finance, government, healthcare, insurance, and transportation. It supports X12 6040 standard.

- EDIFACT includes prebuilt definitions for the United Nations Electronic Data Interchange for Administration, Commerce, and Transport (EDIFACT) standards. It supports d.11a and d.11b standards.
- TRADACOMS is an EDI standard used in the retail sector for general merchandise.
- **WebSphere Transformation Extender: Miscellaneous options**
 - WebSphere Transformation Extender SNMP Collection enables integration with network management applications. The Simple Network Management Protocol (SNMP) Collection includes the SNMP Agent, which enables monitoring and management by an SNMP manager and an SNMP Adapter, which enables the sending of alerts to SNMP manager products from WebSphere Transformation Extender maps.
 - WebSphere Transformation Extender Trading Manager enables you to manage and control the business-to-business (B2B) integration of partner relationships and message flows. WebSphere Transformation Extender Trading Manager users can audit, control, monitor, and view the entire B2B integration environment across the extended enterprise with security-enhanced data exchange fully integrated with back end systems. This product remains at V8.2.
 - WebSphere Transformation Extender Trading Manager can be integrated with WebSphere DataPower® XI50 or WebSphere Partner Gateway to provide an end-to-end B2B integration environment, and to expand the reach of WebSphere TX into B2B and EDI Gateway customer self-service, security, and AS1, AS2, and AS3 futures.
 - WebSphere Transformation Extender Launcher Agent includes an inbound HTTP agent for WebSphere Transformation Extender. This enables WebSphere Transformation Extender with Launcher to listen and respond to HTTP requests. WebSphere Transformation Extender Launcher Agent requires the WebSphere Transformation Extender with Launcher base edition.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Section 508 of the US Rehabilitation Act

WebSphere Transformation Extender for z/OS V8.4.1 is capable as of April 23, 2013, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM , you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=213-139>

Value Unit-based pricing

Value Unit pricing for eligible IBM System z IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be

converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool website

<http://ibm.com/zseries/swprice/vuctool>

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the System z IPLA program you selected, refer to the [Terms and conditions](#) section.

Reference information

Refer to:

- IBM WebSphere Transformation Extender V8.4.1, Software Announcement [213-142](#), dated April 23, 2013
- IBM WebSphere Transformation Extender for AIX® V8.4.1, Software Announcement [213-097](#), dated April 23, 2013

Program number

Program number	VRM	Program name
5655-R95	8.4.1	webSphere Transformation Extender for z/OS

Product identification number

Program PID number	Subscription and Support PID number
5655-R95	5655-R96

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Publications

The following publications are included with the z/OS product:

GI11-2870 - IBM WebSphere Transformation Extender Program Directory
GC27-2272 - IBM WebSphere Transformation Extender License Information
GC18-9776 - IBM WebSphere Transformation Extender Extr License Booklet
LCD8-0593 - IBM WebSphere Transformation Extender Design Studio DVD
LCD8-0592 - IBM WebSphere Transformation Extender Documentation CD
LCD8-0594 - IBM WebSphere Transformation Extender Launcher Studio
LCD7-6001 - IBM WebSphere Transformation Extender for Integration Servers
DVD

For more information about the WebSphere Transformation Extender family of products see

<http://www.ibm.com/software/products/us/en/wdatastagetx/>

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements

Visit the Program Directory for IBM WebSphere Transformation Extender for use with z/OS at

<http://www.ibm.com/software/integration/wdatastagetx/library/index.html>

For more information regarding system requirements for WebSphere Transformation Extender, visit

<http://www.ibm.com/software/products/us/en/wdatastagetx/>

Software requirements

z/OS 1.11 System z (and future versions and fix packs)

For more information regarding system requirements for WebSphere Transformation Extender, visit

<http://www.ibm.com/software/products/us/en/wdatastagetx/>

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Packaging

The following publications are included with the z/OS product:

- GI11-2870 - IBM WebSphere Transformation Extender Program Directory
- GC27-2272 - IBM WebSphere Transformation Extender License Information
- GC18-9776 - IBM WebSphere Transformation Extender Extr License Booklet
- LCD7-6001 - IBM WebSphere Transformation Extender for Integration Servers DVD
- LCD8-0593 - IBM WebSphere Transformation Extender Design Studio DVD
- LCD8-0592 - IBM WebSphere Transformation Extender Documentation CD
- LCD8-0594 - IBM WebSphere Transformation Extender Launcher Studio

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the US and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Charge metric

Program name	Part number or PID number	Charge metric
IBM webSphere	5655-R95	Value Unit

Transformation
 Extender for z/OS

The programs in this announcement all have Value Unit-Based pricing.

Program number	Program name	Value Unit exhibit
5655-R95	IBM websphere Transformation Extender for z/OS	per Value Unit per MSU-day TUC

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

Value Unit exhibit VUE007

	MSUS minimum	MSUS maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	2

Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units

	MSUS	*	Value Units/MSU	=	Value Units
Base	3	*	1.00	=	3.00
Tier A	42	*	.45	=	18.90
Tier B	130	*	.36	=	46.80
Tier C	140	*	.27	=	37.80
Tier D	1,185	*	.20	=	237.00
Total	1,500				343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Customized Offerings

Product deliverables are shipped only via CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you

to install software without the need to handle tapes. For more details on Internet delivery, refer to the Shopz help information at

<http://www.software.ibm.com/ShopzSeries>

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options include:

- 3590
- 3592

Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered via CBPDO and , ServerPac. at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the Product ServerPac, visit the Help section on the Shopz website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Agreement for Acquisition of Software Maintenance

The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form number

License Information

Program name	License Information form number
WebSphere Transformation Extender for z/OS V8.4	L-TWOM-8KFQHX

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program support

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Other terms

Volume orders (IVO)

No

IBM International Passport Advantage Agreement

Passport Advantage applies

No

Software Subscription and Support applies

No. For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

<http://www.ibm.com/services/sl/products>

IBM Operational Support Services - SoftwareXcel

Yes

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

The prices are unchanged by this announcement.

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner for Software Value Plus. Additional information is also available at

<http://www.ibm.com/software/passportadvantage>

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Phone: 800-IBM-CALL (426-2255)

Fax: 800-2IBM-FAX (242-6329)

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For IBM Business Partner: pwswna@us.ibm.com

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Markham, Ontario
Canada L3R 2Z1

Reference: LE001

The Americas Call Centers, IBM's national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

IBM Software Value Plus

These products are available under IBM Software Value Plus, either directly from IBM or through authorized Business Partners who invest in skills and high-value solutions. IBM customers may benefit from the industry-specific or horizontal solutions, skills, and expertise provided by these Business Partners.

Additions to Software Value Plus will be communicated through standard product announcements. For a current list of IBM software available under Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorized_portfolio_criteria

For questions regarding Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorized_portfolio_contacts

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